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## REVISED PRICE LIST



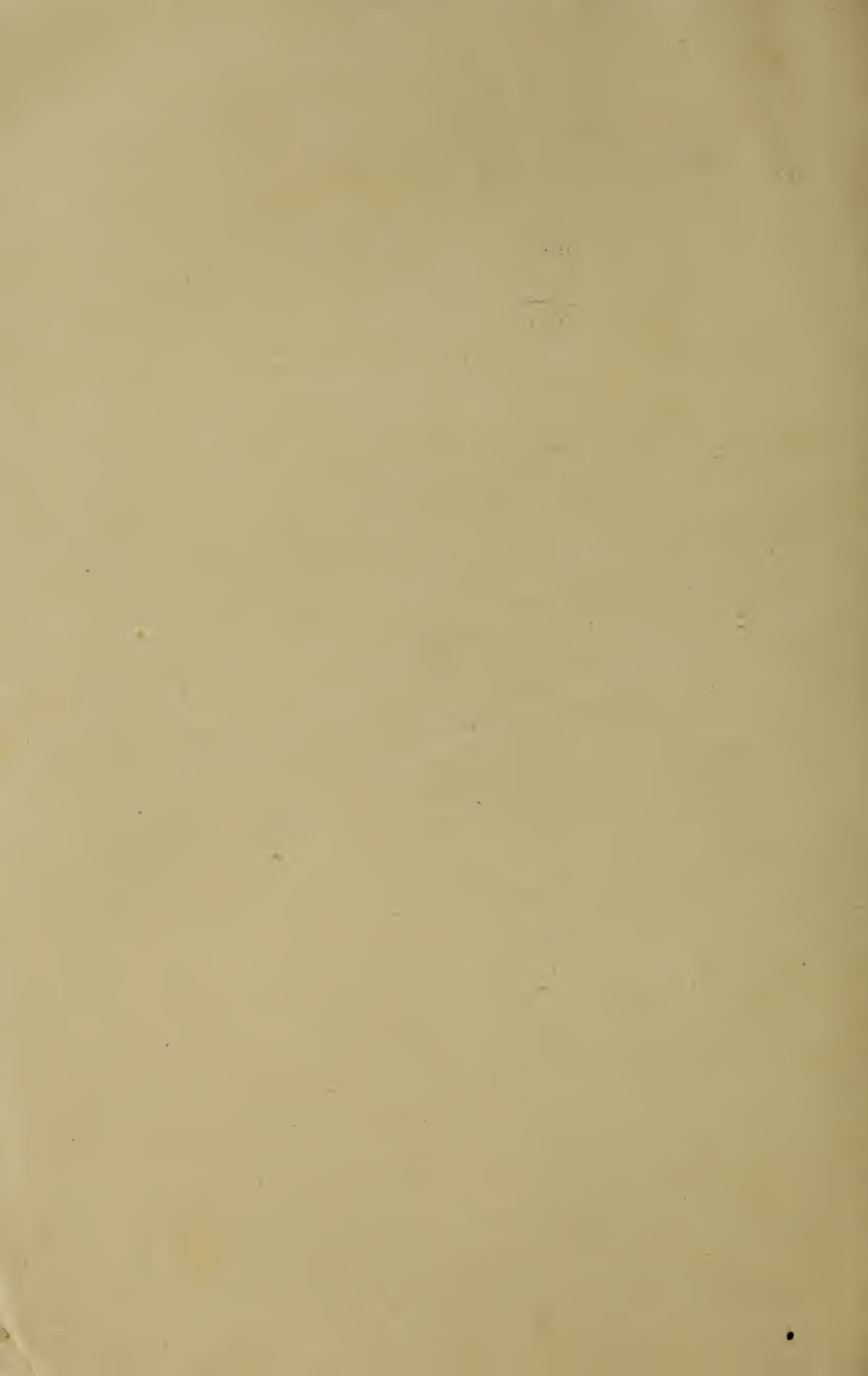
# Well Specialties



SANDWICH ENTERPRISE CO.,

SANDWICH, ILL.





~ ~ 1892 ~ ~



TO THE TRADE. + + +

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**W**E mail you this as a supplement to our regular Catalogue. It contains revised price list of WELL POINTS and other WELL SPECIALTIES. The vast increase in the demand for this class of goods has made it desirable to group them in compact and intelligible form, independent from our regular catalogue of Pumps, Pipe Fittings, etc. The goods we offer are second to none in quality and variety. We hope to receive your orders for these SPECIALTIES and other goods in our line.

# The Morris Perfection Drive Well Points

## THE BEST IN THE WORLD!

This is no idle boast, but a solid fact, acknowledged and certified to by a great number of practical *well* men that have been using them for the past seven years.

Why? *First*.—Because they have four times more filtering surface for the inlet of water than the best Well Point in existence made of iron pipe—notice its peculiar construction as shown by engraving on the right—also see tables at the bottom of next page as to capacity of each size of Point. These Well Points have been used very successfully when others have been tried and *failed* to get a supply of water.

*Second*.—The body of the Morris Well Points is much heavier than Pipe Points, being cast of the best *hot blast malleable iron*, all in one piece and on a plan that gives it the greatest possible strength.

*Third*.—They are tinned outside and in, leaving no unprotected surface to corrode or rust, while in nearly all the Points made of iron pipe, the holes are punched or drilled after the pipe is galvanized, which leaves the edges around the holes uncovered, raw iron to corrode or rust.

*Fourth*.—We cover them with a jacket made of brass weighing a pound to the square foot, which renders them much less liable to be destroyed in driving, than Well Points made of pipe which are covered with brass that weighs but  $\frac{1}{10}$  of a pound to the square foot.

*Lastly*.—On account of their superiority and greater certainty of getting a good supply of water, and because pumps used in connection with them work easier and give better satisfaction, it is for the interest of dealers, as well as users, to handle the Morris Well Points. We make a second quality of Morris Well Points, with *open centre*. See page 10.



VIEW OF No. 60 TUBULAR WELL POINT.



## PRICE LIST

## MORRIS PERFECTION DRIVE WELL POINTS

| Trade Number. | Size in Diameter  | Length of Point. | Length of Jacket. | Number of Openings | Number of Gauze 60, Price per Dozen. | Number of Gauze 70, Price per Dozen. | Number of Gauze 80, Price per Dozen. | Number of Gauze 90, Price per Dozen. | Number of Gauze 100, Price per Dozen. |
|---------------|-------------------|------------------|-------------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| No. 5..       | 1 in.             | 24 in.           | 18 in.            | 156                | \$33 00                              | \$40 00                              | \$46 00                              | \$52 00                              | \$62 00                               |
| " 10..        | 1 "               | 36 "             | 30 "              | 260                | 51 00                                | 59 00                                | 66 00                                | 76 00                                | 94 00                                 |
| " 15..        | 1 $\frac{1}{4}$ " | 20 "             | 14 "              | 116                | 30 00                                | 36 00                                | 42 00                                | 50 00                                | 64 00                                 |
| " 20..        | 1 $\frac{1}{4}$ " | 24 "             | 18 "              | 152                | 36 00                                | 44 00                                | 52 00                                | 60 00                                | 80 00                                 |
| " 25..        | 1 $\frac{1}{4}$ " | 30 "             | 24 "              | 204                | 46 00                                | 55 00                                | 64 00                                | 75 00                                | 100 00                                |
| " 27..        | 1 $\frac{1}{4}$ " | 36 "             | 30 "              | 272                | 56 00                                | 66 00                                | 76 00                                | 90 00                                | 120 00                                |
| " 28..        | 1 $\frac{1}{4}$ " | 42 "             | 36 "              | 316                | 66 00                                | 77 00                                | 88 00                                | 105 00                               | 140 00                                |
| " 30..        | 1 $\frac{1}{2}$ " | 24 "             | 18 "              | 156                | 48 00                                | 57 00                                | 65 00                                | 78 00                                | 94 00                                 |
| " 35..        | 1 $\frac{1}{2}$ " | 30 "             | 24 "              | 208                | 60 00                                | 70 00                                | 80 00                                | 96 00                                | 118 09                                |
| " 40..        | 1 $\frac{1}{2}$ " | 36 "             | 30 "              | 260                | 72 00                                | 84 00                                | 95 00                                | 114 00                               | 142 00                                |
| " 45..        | 2 "               | 24 "             | 18 "              | 152                | 75 00                                | 85 00                                | 94 00                                | 110 00                               | 130 00                                |
| " 50..        | 2 "               | 30 "             | 24 "              | 200                | 90 00                                | 101 00                               | 112 00                               | 132 00                               | 160 00                                |
| " 55..        | 2 "               | 36 "             | 30 "              | 248                | 105 00                               | 118 00                               | 130 00                               | 154 00                               | 190 00                                |

## MORRIS TUBE WELL POINTS.

|          |                     |        |        |     |         |         |         |         |        |
|----------|---------------------|--------|--------|-----|---------|---------|---------|---------|--------|
| No. 60.. | 1 $\frac{1}{4}$ in. | 28 in. | 24 in. | 204 | \$46 00 | \$55 00 | \$64 00 | \$75 00 | 100 00 |
| " 65..   | 1 $\frac{1}{4}$ "   | 42 "   | 24 "   | 200 | 56 00   | 65 00   | 73 00   | 85 00   | 105 00 |
| " 70..   | 1 $\frac{1}{4}$ "   | 42 "   | 30 "   | 225 | 61 00   | 71 00   | 80 00   | 95 00   | 120 00 |

The following table gives the number of square inches the openings aggregate each, for the inlet of water, of all sizes of the Morris Well Points by trade number.

| Trade Number.....                        | 5  | 10  | 15 | 20 | 25  | 28  | 30 | 35  | 40  | 45  | 50  | 55  | 60  | 65  |
|------------------------------------------|----|-----|----|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| Aggregate Square inches of Openings. . . | 60 | 106 | 56 | 72 | 101 | 152 | 87 | 119 | 149 | 108 | 151 | 192 | 101 | 100 |

Dealers will please bring to the notice of consumers that a well point's value consists not in its length, but in its filtering surface for the inlet of water, and that the MORRIS POINTS are equal, in that respect, to a pipe well point of three times its length. Our 1 $\frac{1}{4}$  inch by 2 feet MORRIS WELL POINTS have 72 square inches of filtering surface,—against 17 square inches in the best well points of that size made of galvanized pipe, and 24 square inches in the Banner Point; hence it will be seen that, while it costs a little more for the same length, it is, *real value considered*, the cheapest well point in the world.

USE TRADE NUMBER IN ORDERING.

TRADE



MARK.

## BRASS • JACKET • BANNER

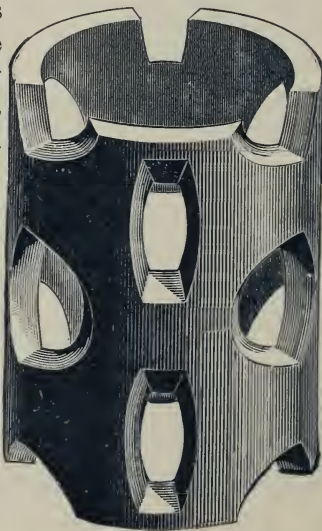
### WELL POINTS.

The engraving on the right shows our Banner Well Point before gauze and jacket are put on ; the full size cross section engraving below shows construction. It will be seen the holes are countersunk, which increases the inflow of water, and by retaining as much metal as possible maintains the strength of the Points. These Points are tinned outside and in after the holes are made, hence are non-corrosive—a quality possessed by no other make of pipe points. They have an inlet for water of  $24\frac{3}{8}$  square inches as against 17 square inches for an elliptical hole pipe point  $1\frac{1}{4} \times 2\frac{1}{4}$  inches. They have been on the market five years—are best liked where best known ; are second only to the MORRIS PERFECTION POINTS.

They are sold at same price as other pipe points.



These Points have  $27\frac{1}{2}$  square inches filtering surface for the inlet of water to each 100 holes.



## PRICE LIST

## BRASS JACKET BANNER DRIVE WELL POINTS

| Trade<br>Number. | Size<br>in<br>Diameter | Length<br>of<br>Point. | Length<br>of<br>Jacket. | No.<br>of<br>Holes. | Number<br>of<br>Gauze 60,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 70,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 80,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 90,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 100,<br>Price per<br>Dozen. |
|------------------|------------------------|------------------------|-------------------------|---------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| No. 186...       | 1 $\frac{1}{4}$ in.    | 20 in.                 | 14 in.                  | 72                  | \$30 00                                          | \$36 00                                          | \$42 00                                          | \$50 00                                          | \$64 00                                           |
| " 190...         | 1 $\frac{1}{4}$ "      | 24 "                   | 18 "                    | 90                  | 36 00                                            | 44 00                                            | 52 00                                            | 60 00                                            | 80 00                                             |
| " 194...         | 1 $\frac{1}{4}$ "      | 30 "                   | 24 "                    | 126                 | 46 00                                            | 55 00                                            | 64 00                                            | 75 00                                            | 100 00                                            |
| " 198...         | 1 $\frac{1}{4}$ "      | 36 "                   | 30 "                    | 156                 | 56 00                                            | 66 00                                            | 76 00                                            | 90 00                                            | 120 00                                            |
| " 336...         | 1 $\frac{1}{2}$ "      | 24 "                   | 18 "                    | 118                 | 48 00                                            | 57 00                                            | 65 00                                            | 78 00                                            | 94 00                                             |
| " 340...         | 1 $\frac{1}{2}$ "      | 30 "                   | 24 "                    | 150                 | 60 00                                            | 70 00                                            | 80 00                                            | 96 00                                            | 118 00                                            |
| " 344...         | 1 $\frac{1}{2}$ "      | 36 "                   | 30 "                    | 192                 | 72 00                                            | 84 00                                            | 95 00                                            | 114 00                                           | 142 00                                            |
| " 360...         | 2 "                    | 24 "                   | 18 "                    | 120                 | 75 00                                            | 85 00                                            | 94 00                                            | 110 00                                           | 130 00                                            |
| " 364...         | 2 "                    | 30 "                   | 24 "                    | 162                 | 90 00                                            | 101 00                                           | 112 00                                           | 132 00                                           | 160 00                                            |
| " 368...         | 2 "                    | 36 "                   | 30 "                    | 204                 | 105 00                                           | 118 00                                           | 130 00                                           | 154 00                                           | 190 00                                            |

The size and construction of the holes in our Banner Points are such as to give a filtering surface one-third more than any Well Point made of galvanized pipe now on the market. We will give \$100.00 reward to any one that can find one of our *Banner Points* not having the number of holes claimed. Any size not on list will be made of galvanized iron pipe.

## OPEN END OR WELL POINT EXTENSIONS

MADE OF GALVANIZED IRON PIPE.



|          |                     |        |        |     |         |         |         |         |          |
|----------|---------------------|--------|--------|-----|---------|---------|---------|---------|----------|
| No. 95.. | 1 $\frac{1}{4}$ in. | 30 in. | 24 in. | 126 | \$46 00 | \$55 00 | \$64 00 | \$75 00 | \$100 00 |
| " 99..   | 1 $\frac{1}{4}$ "   | 36 "   | 30 "   | 165 | 56 00   | 66 00   | 76 00   | 90 00   | 120 00   |
| " 101..  | 1 $\frac{1}{4}$ "   | 42 "   | 36 "   | 200 | 66 00   | 77 00   | 88 00   | 105 00  | 140 00   |
| " 145..  | 1 $\frac{1}{2}$ "   | 36 "   | 30 "   | 198 | 72 00   | 84 00   | 95 00   | 114 00  | 142 00   |
| " 147..  | 1 $\frac{1}{2}$ "   | 42 "   | 36 "   | 240 | 84 00   | 97 00   | 110 00  | 132 00  | 166 00   |
| " 169..  | 2 "                 | 36 "   | 30 "   | 250 | 105 00  | 118 00  | 130 00  | 154 00  | 190 00   |
| " 171..  | 2 "                 | 42 "   | 36 "   | 288 | 120 00  | 134 00  | 148 00  | 176 00  | 220 00   |
| " 173..  | 2 "                 | 48 "   | 42 "   | 300 | 135 00  | 151 00  | 166 00  | 198 00  | 250 00   |

USE TRADE NUMBER IN ORDERING.



## BRASS JACKET WELL POINTS.

MADE OF WROUGHT IRON PIPE.

**T**HERE is no other article handled by the trade, in which there exists such uniformity of appearance with such wide difference in real value as in this class of Well Points.

**See how it is?** One of our competitors sends out regularly, 1 $\frac{1}{4}$  inch by 24 inch Points with 60 drilled holes, listed at \$36.00 per dozen. We send out 1 $\frac{1}{4}$  inch by 20 inch Points with 65 elliptical punched holes of greater capacity, listed at \$30.00 per dozen. It will be seen there is a difference of 12 per cent greater capacity in our 20 inch Point, with a difference of 20 per cent in price in its favor. These differences increase in proportion to increase in length.

Note the result! The dealer to make an extra 5 per cent sells these inferior Points, they are driven and give a drizzle of water, the well owner thinks the supply of water is not in the ground, whereas if he had bought a Point with full capacity, his supply would have been ample. We **guarantee** every one of our points to have the number of holes claimed for them in our catalogue.

We call the attention of the trade to the following points of excellence: The holes in our pipe Points are punched with an automatic machine which gives each the exact number of holes with perfect alignment and spacing. Others do this work in a hap-hazard manner by hand, depending on the man to space and number the holes by guess, generally resulting in a deficiency of holes, often 25 per cent less than should be.

We galvanize our Points **after** the holes are made, by immersing them in the best quality of non-corrosive metal, rendering them non-corrosive, inside and out. Others either drill or punch the holes in the pipe **after** it is galvanized, leaving the edges of holes raw iron, and by the process of punching, cracking and peeling off the galvanizing metal, exposing the iron to corrosion and rust.

**We are the only makers of non-corrosive Well Points.**



# Brass • Jacket • Points.

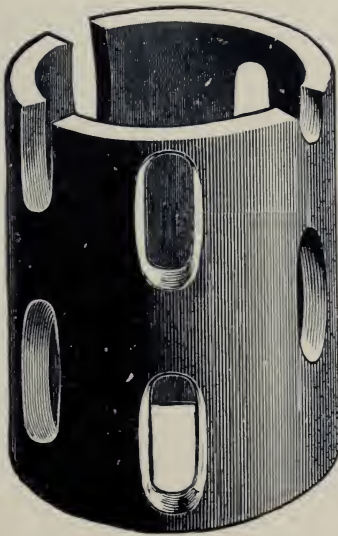
MADE OF WROUGHT IRON PIPE.



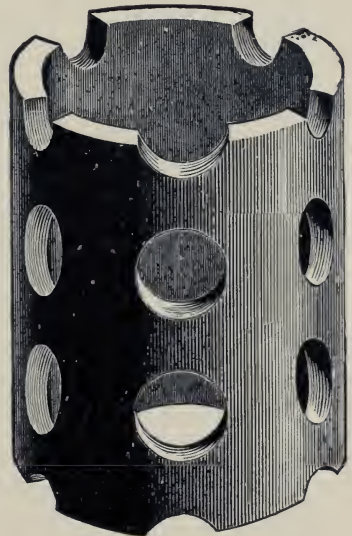
The engraving on the left shows the completed Point, with gauze and jacket on, while the engravings below show full size cross sections of the two styles of wrought iron Pipe Points made by us. They are both made with punched holes. The price lists on the following pages give the number of round holes in each. The elliptical or oblong hole points have 15 per cent less number of holes, yet have an increase of area for the inflow of water of about one-third as shown below each engraving. Every point **guaranteed** to have the number of holes claimed for them.

The prices and trade numbers are the same.

Price lists on 8th and 9th pages.



CROSS SECTION  $1\frac{1}{4}$  POINTS.  
FILTERING SURFACE 17 SQUARE  
INCHES FOR EACH 85 HOLES.



FILTERING SURFACE  $12\frac{1}{2}$  SQUARE  
INCHES FOR EACH 100 HOLES.

## PRICE LIST

**BRASS • JACKET • POINTS.**

MADE OF GALVANIZED WROUGHT IRON PIPE.

| Trade Number. | Size in Diameter  | Length of Point. | Length of Jacket. | No. of Holes | Number of Gauze 60, Price per Dozen. | Number of Gauze 70, Price per Dozen. | Number of Gauze 80, Price per Dozen. | Number of Gauze 90, Price per Dozen. | Number of Gauze 100, Price per Dozen. |
|---------------|-------------------|------------------|-------------------|--------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| No. 74.       | 1 in.             | 24 in.           | 18 in.            | 72           | \$33 00                              | \$ 40 00                             | \$ 46 00                             | \$ 52 00                             | \$ 62 00                              |
| " 76.         | 1 "               | 30 "             | 24 "              | 96           | 42 00                                | 49 00                                | 56 00                                | 64 00                                | 78 00                                 |
| " 78.         | 1 "               | 36 "             | 30 "              | 120          | 51 00                                | 59 00                                | 66 00                                | 76 00                                | 94 00                                 |
| " 80.         | 1 "               | 42 "             | 36 "              | 144          | 60 00                                | 68 00                                | 76 00                                | 88 00                                | 120 00                                |
| " 82.         | 1 "               | 48 "             | 42 "              | 168          | 69 00                                | 78 00                                | 86 00                                | 100 00                               | 136 00                                |
| " 84.         | 1 "               | 54 "             | 48 "              | 197          | 78 00                                | 87 00                                | 96 00                                | 112 00                               | 152 00                                |
| " 86.         | 1 $\frac{1}{4}$ " | 20 "             | 14 "              | 80           | 30 00                                | 36 00                                | 42 00                                | 50 00                                | 64 00                                 |
| " 90.         | 1 $\frac{1}{4}$ " | 24 "             | 18 "              | 100          | 36 00                                | 44 00                                | 52 00                                | 60 00                                | 80 00                                 |
| " 94.         | 1 $\frac{1}{4}$ " | 30 "             | 24 "              | 130          | 46 00                                | 55 00                                | 64 00                                | 75 00                                | 100 00                                |
| " 98.         | 1 $\frac{1}{4}$ " | 36 "             | 30 "              | 165          | 56 00                                | 66 00                                | 76 00                                | 90 00                                | 120 00                                |
| " 100.        | 1 $\frac{1}{4}$ " | 42 "             | 36 "              | 200          | 66 00                                | 77 00                                | 88 00                                | 105 00                               | 140 00                                |
| " 102.        | 1 $\frac{1}{4}$ " | 48 "             | 42 "              | 270          | 76 00                                | 88 00                                | 100 00                               | 120 00                               | 160 00                                |
| " 106.        | 1 $\frac{1}{4}$ " | 54 "             | 48 "              | 260          | 86 00                                | 99 00                                | 112 00                               | 135 00                               | 180 00                                |
| " 110.        | 1 $\frac{1}{4}$ " | 60 "             | 54 "              | 290          | 96 00                                | 110 00                               | 124 00                               | 150 00                               | 200 00                                |
| " 112.        | 1 $\frac{1}{4}$ " | 66 "             | 60 "              | 320          | 106 00                               | 121 00                               | 136 00                               | 165 00                               | 220 00                                |
| " 114.        | 1 $\frac{1}{4}$ " | 72 "             | 66 "              | 350          | 116 00                               | 132 00                               | 148 00                               | 180 00                               | 240 00                                |
| " 136.        | 1 $\frac{1}{2}$ " | 24 "             | 18 "              | 120          | 48 00                                | 57 00                                | 65 00                                | 78 00                                | 94 00                                 |
| " 140.        | 1 $\frac{1}{2}$ " | 30 "             | 24 "              | 162          | 60 00                                | 70 00                                | 80 00                                | 96 00                                | 118 00                                |
| " 144.        | 1 $\frac{1}{2}$ " | 36 "             | 30 "              | 198          | 72 00                                | 84 00                                | 95 00                                | 114 00                               | 142 00                                |
| " 146.        | 1 $\frac{1}{2}$ " | 42 "             | 36 "              | 240          | 84 00                                | 97 00                                | 110 00                               | 132 00                               | 166 00                                |
| " 148.        | 1 $\frac{1}{2}$ " | 48 "             | 42 "              | 276          | 96 00                                | 111 00                               | 125 00                               | 150 00                               | 188 00                                |
| " 150.        | 1 $\frac{1}{2}$ " | 54 "             | 48 "              | 312          | 108 00                               | 124 00                               | 140 00                               | 168 00                               | 204 00                                |
| " 152.        | 1 $\frac{1}{2}$ " | 60 "             | 54 "              | 348          | 120 00                               | 138 00                               | 155 00                               | 186 00                               | 228 00                                |
| " 154.        | 1 $\frac{1}{2}$ " | 66 "             | 60 "              | 384          | 132 00                               | 151 00                               | 170 00                               | 204 00                               | 252 00                                |
| " 156.        | 1 $\frac{1}{2}$ " | 72 "             | 66 "              | 420          | 144 00                               | 165 00                               | 185 00                               | 222 00                               | 276 00                                |
| " 160.        | 2 "               | 24 "             | 18 "              | 144          | 75 00                                | 85 00                                | 94 00                                | 110 00                               | 130 00                                |
| " 164.        | 2 "               | 30 "             | 24 "              | 208          | 90 00                                | 101 00                               | 112 00                               | 132 00                               | 160 00                                |
| " 168.        | 2 "               | 36 "             | 30 "              | 264          | 105 00                               | 118 00                               | 130 00                               | 154 00                               | 190 00                                |
| " 170.        | 2 "               | 42 "             | 36 "              | 288          | 120 00                               | 134 00                               | 148 00                               | 176 00                               | 220 00                                |
| " 172.        | 2 "               | 48 "             | 42 "              | 336          | 135 00                               | 151 00                               | 166 00                               | 198 00                               | 250 00                                |
| " 174.        | 2 "               | 54 "             | 48 "              | 384          | 150 00                               | 167 00                               | 184 00                               | 220 00                               | 280 00                                |
| " 176.        | 2 "               | 60 "             | 54 "              | 432          | 165 00                               | 184 00                               | 202 00                               | 242 00                               | 310 00                                |
| " 178.        | 2 "               | 66 "             | 60 "              | 480          | 180 00                               | 200 00                               | 220 00                               | 264 00                               | 340 00                                |
| " 180.        | 2 "               | 72 "             | 66 "              | 528          | 195 00                               | 217 00                               | 238 00                               | 286 00                               | 370 00                                |
| " 184.        | 2 $\frac{1}{2}$ " | 36 "             | 30 "              | 300          | 180 00                               | 205 00                               | 230 00                               | 260 00                               | 300 00                                |
| " 188.        | 2 $\frac{1}{2}$ " | 48 "             | 42 "              | 360          | 230 00                               | 265 00                               | 300 00                               | 340 00                               | 400 00                                |
| " 192.        | 2 $\frac{1}{2}$ " | 60 "             | 54 "              | 420          | 280 00                               | 325 00                               | 370 00                               | 420 00                               | 500 00                                |
| " 196.        | 2 $\frac{1}{2}$ " | 72 "             | 66 "              | 480          | 330 00                               | 385 00                               | 440 00                               | 500 00                               | 600 00                                |
| " 200.        | 3 "               | 36 "             | 30 "              | 300          | 240 00                               | 275 00                               | 310 00                               | 340 00                               | 410 00                                |
| " 204.        | 3 "               | 48 "             | 42 "              | 420          | 300 00                               | 345 00                               | 390 00                               | 430 00                               | 520 00                                |
| " 208.        | 3 "               | 60 "             | 54 "              | 540          | 360 00                               | 415 00                               | 470 00                               | 520 00                               | 630 00                                |
| " 212.        | 3 "               | 72 "             | 66 "              | 660          | 420 00                               | 485 00                               | 550 00                               | 610 00                               | 740 00                                |
| " 216.        | 4 "               | 48 "             | 36 "              | 360          | 480 00                               | 520 00                               | 560 00                               | 600 00                               | 700 00                                |
| " 220.        | 4 "               | 72 "             | 60 "              | 600          | 630 00                               | 695 00                               | 760 00                               | 840 00                               | 1000 00                               |
| " 224.        | 4 "               | 96 "             | 84 "              | 840          | 780 00                               | 870 00                               | 960 00                               | 1080 00                              | 1300 00                               |
| " 228.        | 4 "               | 120 "            | 108 "             | 1080         | 930 00                               | 1045 00                              | 1160 00                              | 1320 00                              | 1600 00                               |

USE TRADE NUMBER IN ORDERING.

## PRICE LIST

## FLUSH OR TUBULAR WELL POINTS.



MADE OF WROUGHT IRON PIPE.

| Trade<br>Number. | Size<br>in<br>Diameter | Length<br>of<br>Point. | Length<br>of<br>Jacket. | No.<br>of<br>Holes. | Number<br>of<br>Gauze 60,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 70,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 80,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 90,<br>Price per<br>Dozen. | Number<br>of<br>Gauze 100,<br>Price per<br>Dozen. |
|------------------|------------------------|------------------------|-------------------------|---------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| No. 73...        | 1 in.                  | 30 in.                 | 18 in.                  | 72                  | \$34 00                                          | \$40 00                                          | \$45 00                                          | \$50 00                                          | \$55 00                                           |
| " 75...          | 1 "                    | 36 "                   | 18 "                    | 72                  | 38 00                                            | 44 00                                            | 50 00                                            | 56 00                                            | 66 00                                             |
| " 75½...         | 1 "                    | 36 "                   | 24 "                    | 96                  | 43 00                                            | 49 00                                            | 55 00                                            | 62 00                                            | 77 00                                             |
| " 77...          | 1 "                    | 42 "                   | 24 "                    | 96                  | 47 00                                            | 54 00                                            | 60 00                                            | 68 00                                            | 82 00                                             |
| " 77½...         | 1 "                    | 42 "                   | 30 "                    | 120                 | 52 00                                            | 59 00                                            | 65 00                                            | 74 00                                            | 93 00                                             |
| " 79...          | 1 "                    | 48 "                   | 30 "                    | 120                 | 56 00                                            | 63 00                                            | 70 00                                            | 80 00                                            | 98 00                                             |
| " 79½...         | 1 "                    | 48 "                   | 36 "                    | 144                 | 61 00                                            | 68 00                                            | 75 00                                            | 86 00                                            | 109 00                                            |
| " 81...          | 1 "                    | 54 "                   | 36 "                    | 144                 | 65 00                                            | 73 00                                            | 80 00                                            | 92 00                                            | 114 00                                            |
| " 81½...         | 1 "                    | 54 "                   | 42 "                    | 144                 | 70 00                                            | 78 00                                            | 85 00                                            | 98 00                                            | 125 00                                            |
| " 83...          | 1 "                    | 60 "                   | 42 "                    | 168                 | 74 00                                            | 82 00                                            | 90 00                                            | 104 00                                           | 130 00                                            |
| " 116...         | 1¼ "                   | 24 "                   | 18 "                    | 100                 | 36 00                                            | 44 00                                            | 52 00                                            | 60 00                                            | 80 00                                             |
| " 117...         | 1¼ "                   | 30 "                   | 18 "                    | 100                 | 41 00                                            | 49 00                                            | 57 00                                            | 65 00                                            | 85 00                                             |
| " 117½...        | 1¼ "                   | 30 "                   | 24 "                    | 130                 | 46 00                                            | 55 00                                            | 64 00                                            | 75 00                                            | 100 00                                            |
| " 118...         | 1¼ "                   | 36 "                   | 24 "                    | 130                 | 51 00                                            | 60 00                                            | 68 00                                            | 80 00                                            | 105 00                                            |
| " 119...         | 1¼ "                   | 42 "                   | 24 "                    | 130                 | 56 00                                            | 65 00                                            | 73 00                                            | 85 00                                            | 110 00                                            |
| " 120...         | 1¼ "                   | 48 "                   | 24 "                    | 130                 | 61 00                                            | 70 00                                            | 78 00                                            | 90 00                                            | 115 00                                            |
| " 121...         | 1¼ "                   | 36 "                   | 30 "                    | 165                 | 56 00                                            | 66 00                                            | 76 00                                            | 90 00                                            | 120 00                                            |
| " 122...         | 1¼ "                   | 42 "                   | 30 "                    | 165                 | 61 00                                            | 71 00                                            | 80 00                                            | 95 00                                            | 125 00                                            |
| " 123...         | 1¼ "                   | 48 "                   | 30 "                    | 165                 | 66 00                                            | 76 00                                            | 85 00                                            | 100 00                                           | 130 00                                            |
| " 124...         | 1¼ "                   | 54 "                   | 30 "                    | 165                 | 71 00                                            | 81 00                                            | 91 00                                            | 105 00                                           | 135 00                                            |
| " 125...         | 1¼ "                   | 42 "                   | 36 "                    | 200                 | 66 00                                            | 77 00                                            | 88 00                                            | 103 00                                           | 140 00                                            |
| " 126...         | 1¼ "                   | 48 "                   | 36 "                    | 200                 | 71 00                                            | 82 00                                            | 92 00                                            | 110 00                                           | 145 00                                            |
| " 127...         | 1¼ "                   | 54 "                   | 36 "                    | 200                 | 76 00                                            | 87 00                                            | 97 00                                            | 115 00                                           | 150 00                                            |
| " 128...         | 1¼ "                   | 60 "                   | 36 "                    | 200                 | 81 00                                            | 92 00                                            | 102 00                                           | 120 00                                           | 155 00                                            |
| " 130...         | 1¼ "                   | 54 "                   | 42 "                    | 230                 | 81 00                                            | 92 00                                            | 104 00                                           | 125 00                                           | 165 00                                            |
| " 130½...        | 1¼ "                   | 60 "                   | 42 "                    | 230                 | 86 00                                            | 98 00                                            | 110 00                                           | 130 00                                           | 170 00                                            |
| " 131...         | 1¼ "                   | 66 "                   | 42 "                    | 230                 | 91 00                                            | 103 00                                           | 115 00                                           | 135 00                                           | 175 00                                            |
| " 132...         | 1¼ "                   | 60 "                   | 48 "                    | 260                 | 91 00                                            | 104 00                                           | 116 00                                           | 140 00                                           | 180 00                                            |
| " 133...         | 1¼ "                   | 66 "                   | 48 "                    | 260                 | 96 00                                            | 109 00                                           | 122 00                                           | 145 00                                           | 185 00                                            |
| " 135...         | 1¼ "                   | 72 "                   | 48 "                    | 260                 | 101 00                                           | 114 00                                           | 127 00                                           | 150 00                                           | 190 00                                            |

Any length or size not in the above list will be made to order on short notice.

USE TRADE NUMBER IN ORDERING.



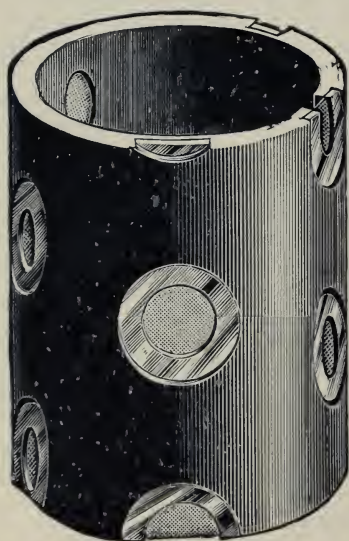
## PRICE LIST

## WASHER · POINTS.



These points are made of Galvanized Iron Pipe, bored and counter-sunk. Each hole is covered with gauze, held in its place by a brass washer, and riveted.

| Trade<br>Number. | Size<br>in<br>Diameter | Length<br>of<br>Pipe. | No.<br>of<br>Holes. | Number<br>of<br>Gauze 60,<br>Price<br>per Dozen. | Number<br>of<br>Gauze 70,<br>Price<br>per Dozen. | Number<br>of<br>Gauze 80,<br>Price<br>per Dozen. | Number<br>of<br>Gauze 90,<br>Price<br>per Dozen. | Number<br>of<br>Gauze 100,<br>Price<br>per Dozen. |
|------------------|------------------------|-----------------------|---------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| No. 300..        | 1 1/4 in.              | 20 in.                | 50                  | \$30 00                                          | \$36 00                                          | \$42 00                                          | \$50 00                                          | \$64 00                                           |
| " 301..          | 1 1/4 "                | 2 ft.                 | 60                  | 36 00                                            | 44 00                                            | 52 00                                            | 60 00                                            | 80 00                                             |
| " 302..          | 1 1/4 "                | 2 1/2 "               | 80                  | 46 00                                            | 55 00                                            | 64 00                                            | 75 00                                            | 100 00                                            |
| " 303..          | 1 1/4 "                | 3 "                   | 100                 | 56 00                                            | 66 00                                            | 76 00                                            | 90 00                                            | 120 00                                            |
| " 304..          | 1 1/4 "                | 3 1/2 "               | 120                 | 66 00                                            | 77 00                                            | 88 00                                            | 105 00                                           | 140 00                                            |
| " 305..          | 1 1/4 "                | 4 "                   | 140                 | 76 00                                            | 88 00                                            | 100 00                                           | 120 00                                           | 160 00                                            |
| " 320..          | 1 1/2 "                | 2 "                   | 80                  | 48 00                                            | 57 00                                            | 65 00                                            | 78 00                                            | 94 00                                             |
| " 321..          | 1 1/2 "                | 2 1/2 "               | 110                 | 60 00                                            | 70 00                                            | 80 00                                            | 96 00                                            | 118 00                                            |
| " 322..          | 1 1/2 "                | 3 "                   | 130                 | 72 00                                            | 84 00                                            | 95 00                                            | 114 00                                           | 142 00                                            |
| " 323..          | 1 1/2 "                | 3 1/2 "               | 150                 | 84 00                                            | 97 00                                            | 110 00                                           | 132 00                                           | 160 00                                            |
| " 324..          | 2 "                    | 2 1/2 "               | 140                 | 90 00                                            | 101 00                                           | 112 00                                           | 132 00                                           | 160 00                                            |
| " 325..          | 2 "                    | 3 "                   | 170                 | 105 00                                           | 118 00                                           | 130 00                                           | 154 00                                           | 190 00                                            |
| " 326..          | 2 "                    | 3 1/2 "               | 220                 | 120 00                                           | 134 00                                           | 148 00                                           | 176 00                                           | 220 00                                            |

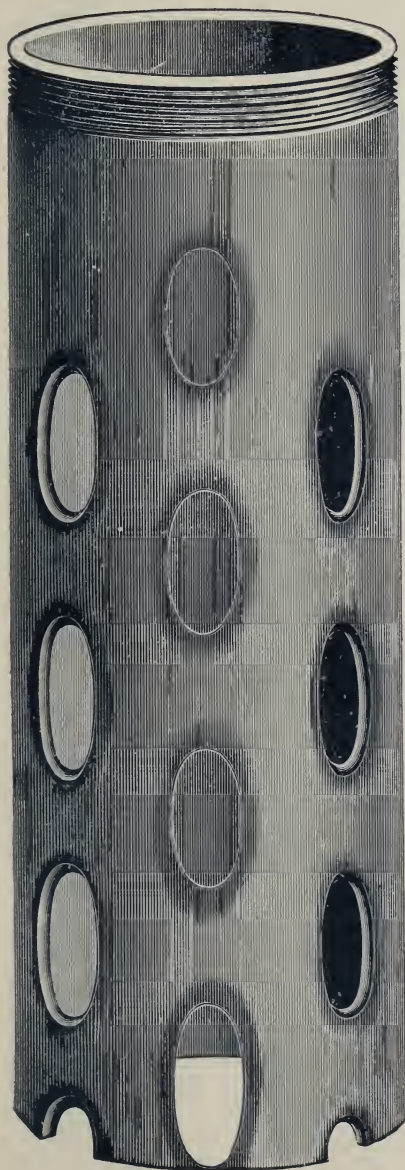


This engraving is a view of a cross section of the Washer Point—full size.

These Points have 11 3/8 square inches of filtering surface to each 100 holes.

USE TRADE NUMBER IN ORDERING.

## WELL POINTS FOR WATER WORKS.




---

We have the only machine in the World that punches pipe up to 8 inches in diameter. It is a conceded fact that punched holes are greatly superior to drilled holes for the reason that the process of punching depresses the surface around the holes, having the same effect as counter boring, increasing the filtering surface, besides it leaves no sharp edges to cut the gauze as is the case in drilled holes.

The engraving is a sample work in spacing and arrangement of holes.

### PRICE LIST.

With 60 Gauze.

|                                           |                   |
|-------------------------------------------|-------------------|
| 6-in. black pipe, per ft. with 60 gz.     | \$5 00            |
| 8-in.     "     "     "     "     "     " | 60     "     7 00 |
| 6-in. galv. pipe, per foot,               | 60     "     5 80 |
| 8-in.     "     "     "     "     "       | 60     "     8 50 |

Extra charge for finer gauze.

Price for 4 inch and under, see bottom of page 8.

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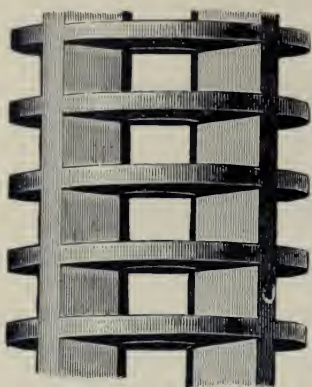


Fig. 14.

## SECOND QUALITY

OR IMITATION

## MORRIS POINTS,

WITH OPEN CENTRE.



These Points are made (as shown in Fig. 15) without the inward projecting segment to give the necessary driving strength as in our *first quality* Morris Points, as shown in Fig. 16. We do not recommend them, as they are not strong enough to stand hard driving.



Fig. 15.

This cut shows actual size and thickness of the four lengthwise sections of Imitation Morris or Open Centre Well Points.



Fig. 16.

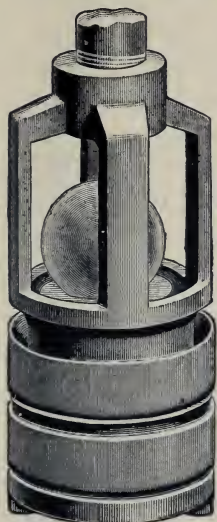
Fig. 16 shows the actual size and thickness of the four lengthwise sections of Morris Perfection Points. It will be seen they are about twice as strong as Second Quality or Imitation Morris.

## PRICE LIST.

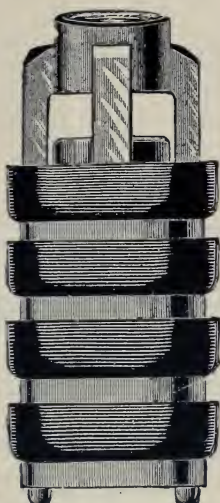
| Trade Number. | Size in Diameter | Length of Point. | Length of Jacket. | No. of Holes. | Number of Gauze 60, Price per Dozen. | Number of Gauze 70, Price per Dozen. | Number of Gauze 80, Price per Dozen. | Number of Gauze 90, Price per Dozen. | Number of Gauze 100, Price per Dozen. |
|---------------|------------------|------------------|-------------------|---------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| No. 7....     | 1 1/4 "          | 24 "             | 18 "              | 90            | \$36 00                              | \$44 00                              | \$52 00                              | \$60 00                              | \$89 00                               |
| " 9....       | 1 1/4 "          | 30 "             | 24 "              | 126           | 46 00                                | 55 00                                | 64 00                                | 75 00                                | 100 00                                |
| " 11....      | 1 1/4 "          | 36 "             | 30 "              | 156           | 56 00                                | 66 00                                | 76 00                                | 90 00                                | 120 00                                |
| " 21....      | 1 1/2 "          | 24 "             | 18 "              | 118           | 48 00                                | 57 00                                | 65 00                                | 78 00                                | 94 00                                 |
| " 23....      | 1 1/2 "          | 30 "             | 24 "              | 150           | 60 00                                | 70 00                                | 80 00                                | 96 00                                | 118 00                                |
| " 29....      | 1 1/2 "          | 36 "             | 30 "              | 192           | 72 00                                | 84 00                                | 95 00                                | 114 00                               | 142 00                                |
| " 31....      | 2 "              | 24 "             | 18 "              | 120           | 75 00                                | 85 00                                | 94 00                                | 110 00                               | 130 00                                |
| " 33....      | 2 "              | 30 "             | 24 "              | 162           | 90 00                                | 101 00                               | 112 00                               | 132 00                               | 160 00                                |
| " 34....      | 2 "              | 36 "             | 30 "              | 204           | 105 00                               | 118 00                               | 130 00                               | 154 00                               | 190 00                                |



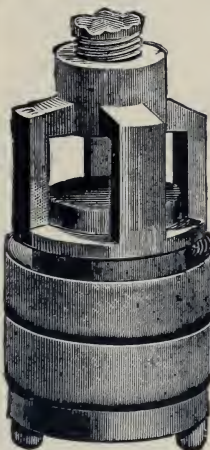
## TUBULAR WELL PLUNGER VALVES.



No. 405.



No. 407 &amp; 409.



No. 407 &amp; 409.

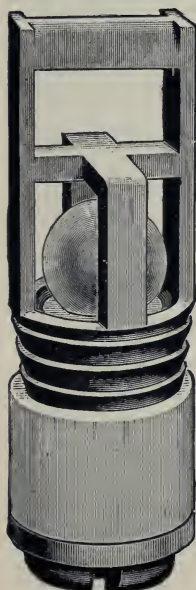
### PRICE LIST.

EITHER BALL OR POPPET STYLE.

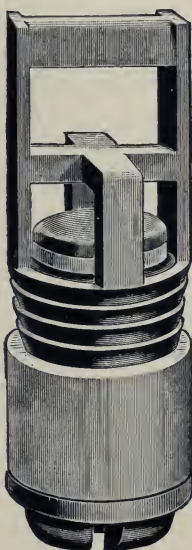
|                  | Each   |
|------------------|--------|
| 2x2 in. leather, | \$1 50 |
| 2½x2 " "         | 3 75   |
| 3x2 " "          | 5 25   |
| 2x4 " "          | 2 25   |
| 2½x4 " "         | 5 25   |
| 3x4 " "          | 6 75   |
| 4x4 " "          | 13 50  |

PRICES HERE DO NOT INCLUDE ROD COUPLINGS.

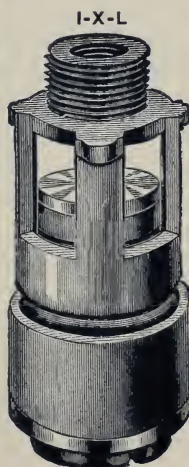
## TUBULAR WELL CHECK VALVES.



No. 405.



No. 407.



I-X-L

No. 409.

### PRICE LIST.

CHECK VALVES ONLY—BALL OR POPPET STYLE.

|             | Each    |
|-------------|---------|
| 2 inch..... | \$ 1 50 |
| 2½ " .....  | 3 75    |
| 3 " .....   | 5 25    |
| 4 " .....   | 10 50   |

IN SETS OF CHECK AND PLUNGER VALVES.

|                      | Set     |
|----------------------|---------|
| 2x2 in. leather..... | \$ 3 00 |
| 2½x2 " " .....       | 7 50    |
| 3x2 " " .....        | 10 50   |
| 2x4 " " plunger      | 3 75    |
| 2½x4 " " " "         | 9 00    |
| 3x4 " " " "          | 12 00   |
| 4x4 " " " "          | 24 00   |

USE TRADE NUMBER IN ORDERING.



# TUBULAR WELL CYLINDERS.

No. 406, represented by the engraving on the left, is a regular polished, iron cylinder made from extra heavy pipe bored out.

## PRICE LIST FOR CYLINDERS.

WITHOUT POINTS OR VALVES.

|              | 3 FEET. | 4 FEET. |                | 3 FEET. | 4 FEET. |
|--------------|---------|---------|----------------|---------|---------|
| 2-in. Black, | \$3 00  | \$3 50  | 2-in. Galvz'd. | \$3 50  | \$4 00  |
| 2½-in. "     | 5 00    | 6 00    | 2½-in. "       | 5 50    | 6 50    |
| 3-in. "      | 7 00    | 8 00    | 3-in. "        | 7 50    | 8 50    |

No. 408, the engraving on the right, is a vertical section of

## MORRIS PATENT STEEL CASED BRASS LINED TUBULAR WELL CYLINDERS.

They are tinned inside and out, and with the brass lining, are the only non-corrosive Cylinders on the market. As they are a trifle less inside diameter than the common bored Cylinder, we fit them with Valves, Points, etc., complete.

As the price is only about \$2.00 net more than the common complete Cylinder, it pays to buy them, as it is a well-known fact that a plunger will last four times as long as in an iron Cylinder, and works much easier.

|                                                      |         |
|------------------------------------------------------|---------|
| 2-in. by 3-ft. with shoes only.....                  | \$ 6 00 |
| 2½-in. by 3-ft. " " " .....                          | 8 00    |
| 3-in. by 3-ft. " " " .....                           | 10 00   |
| 2-in. by 3-ft. complete with valves and points ..... | \$10 00 |
| 2½-in. by 3-ft. " " " .....                          | 15 00   |
| 3-in. by 3-ft. " " " .....                           | 19 00   |

USE TRADE NUMBER IN ORDERING.



# BRASS CYLINDERS

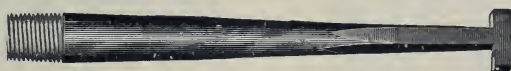
FOR TUBULAR WELLS,  
WITH VALVES, COMPLETE.

No. 410 can be used in rough pipe after the well is made.

It often happens in sinking **Tubular Wells** when the water is reached, it rises in the pipe to within a few feet of the surface. By placing one of these Brass Cylinders just below the surface of the water, you avoid lifting the whole column of water from the bottom with each stroke of the pump, a great saving of labor and wear of pump over the regular Tubular Well with iron cylinder and valves at bottom.

2 inch, with Valves, per set...\$5 50, with Spring Coupling.  
2½ in. " " " ...11 00, " " "  
3 inch " " " ...16 00, " " "

## SEATING TOOL FOR No. 410.



Price.....50 cents.

## ARTESIAN WELL CYLINDERS.

The engraving No. 412 represents our Patent steel-cased, brass-lined Artesian Well Cylinders; can be used inside of cased or open wells. The check valve is seated on a shoulder in the special coupling at lower end of Cylinder as shown in the engraving. These are just as effective as the very expensive, all-brass Cylinders, at less than one-half the cost. A 36 inch Cylinder will give a 24 inch stroke.

| Price of<br>Cylinder Only.     | Price of Cylinder with Four<br>Leather Valves. |
|--------------------------------|------------------------------------------------|
| 2-in. by 3-ft. each....\$ 8 00 | 2-in. by 3-ft. each....\$10 50                 |
| 2½-in. by 3-ft. each.. 11 00   | 2½-in. by 3-ft. each.. 17 00                   |
| 3-in. by 3-ft. each.... 15 00  | 3-in. by 3-ft. each.... 23 00                  |
| 4-in. by 3-ft. each.... 20 00  | 4-in. by 3-ft. each.... 36 00                  |

No. 410.

USE TRADE NUMBER IN ORDERING.

No. 412.

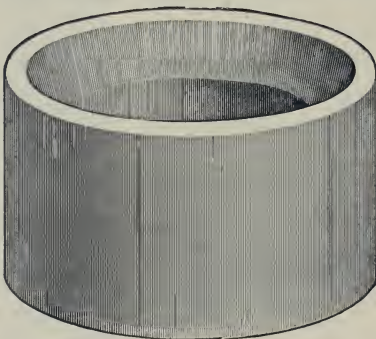


**TURNED COUPLING.**

No. 415.

**PRICE LIST.**

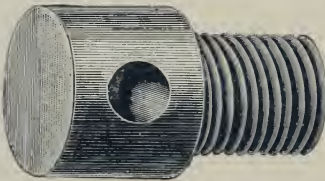
|                                  |            |
|----------------------------------|------------|
| 1¼ in., for 2 in. Cylinder.....  | 20c. each. |
| 1¼x1½ in., for 2½ in. Cylinder.. | 40c. "     |
| 1¼x2 in., 3 in. Cylinder.....    | 60c. "     |

**TUBULAR WELL VALVE, RUBBER.**

No. 417.

**PRICE LIST.**

|                        |            |
|------------------------|------------|
| For 2 in. Valves.....  | 16c. each. |
| For 2½ in. Valves..... | 30c. "     |
| For 3 in. Valves.....  | 40c. "     |
| For 4 in. Valves.....  | 60c. "     |

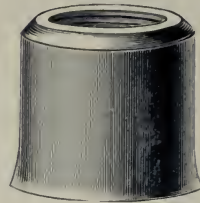
**STEEL DRIVE-HEADS.**

TRADE NO. 444.

**PRICE LIST.**

With ventilated top.

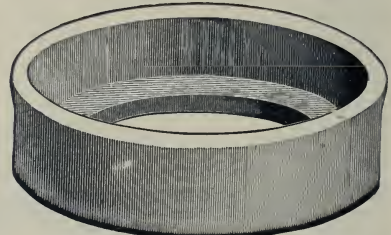
|                      |        |
|----------------------|--------|
| For 1¼ in. Pipe..... | \$1 50 |
| For 1½ in. Pipe..... | 2 00   |
| For 2 in. Pipe.....  | 2 50   |

**TUBULAR WELL CYLINDER SHOE.**

No. 414.

**PRICE LIST.**

|                              |       |
|------------------------------|-------|
| 2 in., with Shoulder.....    | \$ 70 |
| 2 in., without Shoulder..... | 70    |
| 2½ in., " ".....             | 1 00  |
| 3 in., " ".....              | 1 20  |
| 4 in., " ".....              | 1 50  |

**TUBULAR WELL VALVE, LEATHER.**

No. 419.

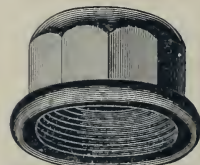
**PRICE LIST.**

|                       |            |
|-----------------------|------------|
| For 2 in. Valves..... | 12c. each. |
| For 2½ " ".....       | 20c. "     |
| For 3 " ".....        | 30c. "     |
| For 4 " ".....        | 40c. "     |

**MALLEABLE DRIVE CAPS.**

VERY HEAVY.

With ventilated top, can be used with common wrench.

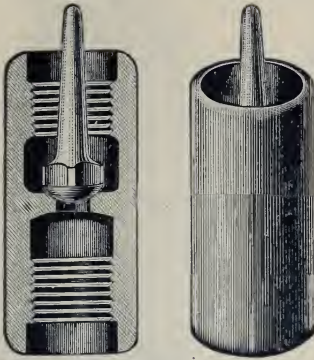


No. 445.

**PRICE LIST.**

|                      |            |
|----------------------|------------|
| For 1¼ in. Pipe..... | 40c. each. |
| For 1½ " ".....      | 50c. "     |
| For 2 " ".....       | 70c. "     |

## BLIND VALVE.

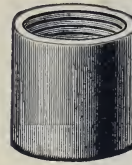


No. 421.

TAPPED FOR 1 INCH PIPE.

Price.....\$1 00 each.

## SPECIAL TOOL COUPLINGS.



No. 423.

WE HAVE THESE MADE LONG AND HEAVY, TO ATTACH  
DRILLS AND OTHER WELL-MAKING TOOLS

TO WORKING RODS.

|                                              | Per 100       |
|----------------------------------------------|---------------|
| 1 x 2½ in. long, for 1 in. tool, shanks..... | \$ 26 00 net. |
| 1¼ x 2¾ " " " 1¼ " " " " " " " " " "         | 32 00 "       |
| 1½ x 3 " " " 1½ " " " " " " " " " "          | 40 00 "       |
| 2 x 3 " " " 2 " " " " " " " " " "            | 50 00 "       |

SIZES NAMED ALL WROUGHT IRON PIPE SIZES.



No. 416.

Rubber Packing between Turned Coupling and Shoulder of Shoe....10c.

## VALVE GRAB.

These are used for removing valves from tubular wells, they are made of spring steel, sufficiently large, and strong enough for any size valves.



Trade No. 459; List Price, each.....\$ 1 50

## FRICTION TONGS.

USED FOR LOWERING PIPE INTO WELLS.



### PRICE LIST.

| Trade Number 448   | No. 1. | No. 2. | No. 3. | No. 4. | No. 5. |
|--------------------|--------|--------|--------|--------|--------|
| Used for Pipe..... | ¾ in.  | 1 in.  | 1¼ in. | 1½ in. | 2 in.  |
| Price, each.....   | \$4 00 | \$4 50 | \$5 00 | \$5 50 | \$6 00 |

USE TRADE NUMBER IN ORDERING.



No. 438.

# CHISEL AND TWIST DRILLS

WITH VALVES.

+++

PRICE LIST.—EITHER STYLE.

|              |         |
|--------------|---------|
| 2 inch.....  | \$ 2 00 |
| 2½ inch..... | 3 00    |
| 3 inch.....  | 4 00    |

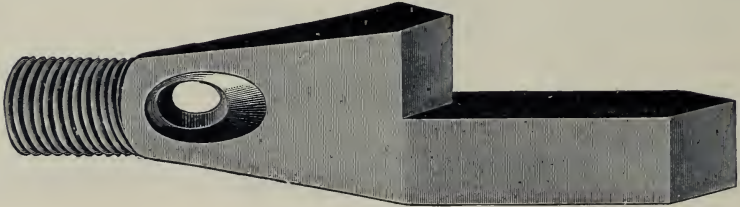


No. 440.

# ENLARGING DRILLS.

12 INCHES LONG.

TRADE NO.  
442.



PRICE LIST.

|                       |         |
|-----------------------|---------|
| For 2 inch pipe.....  | \$ 4 00 |
| For 2½ inch pipe..... | 5 00    |
| For 3 inch pipe.....  | 6 00    |

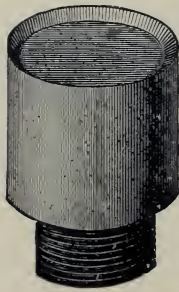


# REAMER.

FOR ENDS OF PIPE.

No. 439.

Price.....\$ 1 50



# PIPE DRIFT.

FOR 2 IN. PIPE.

No. 441.

Price... ..\$ 4 00

USE TRADE NUMBER IN ORDERING.



## WELL AUGERS.

CLAY OR HARD PAN AUGER.

TRADE NUMBER  
434.



SAND OR LOAM AUGER.

TRADE NUMBER 436.



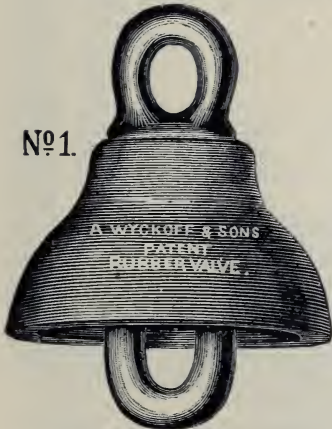
PRICE LIST FOR EITHER STYLE AUGER.

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| 2 inch, used for 1 $\frac{1}{4}$ and 1 $\frac{1}{2}$ inch pipe, each | \$ 4 00 |
| 3 " " " 2 " 2 $\frac{1}{2}$ " " "                                    | 5 00    |

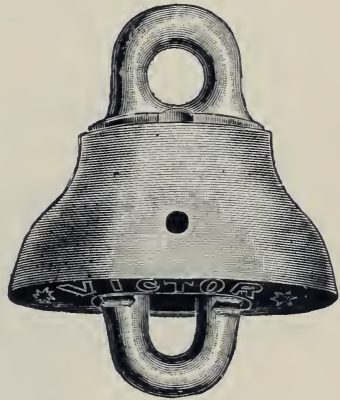
LARGER AUGERS MADE TO ORDER.

## RUBBER BUCKETS FOR CHAIN PUMPS.

Nº1.



(WYCKOFF'S PATENT.)



VICTOR.

**Directions.**—To expand the Wyckoff Valves, turn the rubber up (inside out), and wrap a thin piece of leather, or a piece of twine around the largest portion of the link above the lower flange; turn the rubber back to its place, when it enfolds the twine or leather and keeps it securely in place.

PERFECT EXPANSION AND SATISFACTION GUARANTEED.

Price, for 1 $\frac{1}{2}$  inch tubing, per 1000.....\$ 80 00

## PERFORATED SHEET BRASS.

We make this any width up to sixteen inches. Write for samples and prices.

## BRASS WIRE CLOTH.

We have constantly in stock the following number of meshes to the inch: 50, 60, 70, 80, 90 and 100. Write for samples and prices.

USE TRADE NUMBER IN ORDERING.

# COPPER TANK FLOAT.

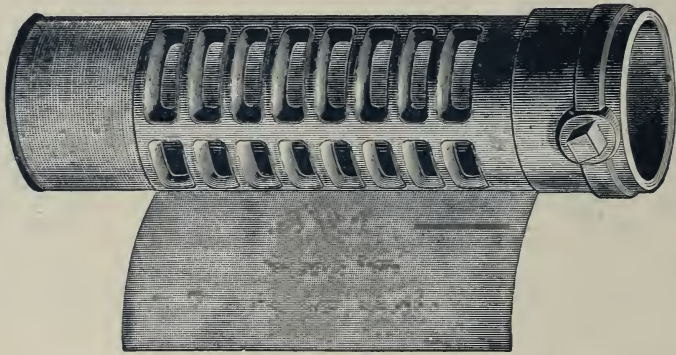


Can be bolted to a lever attached to Tank Valve to open and close automatically.

- No. 4, 12x3 inches.....\$1 50 Each.
- No. 6, 9½x2¾ inches..... 1 10 Each.

## THE MORRIS SUCTION PIPE STRAINER.

FOR OPEN WELLS AND CISTERNS.



This is by far the best Suction Pipe Strainer on the market. It is a great improvement over the common, bungling, heavy cast iron ones furnished by the pump makers. It is made of *Malleable Iron*, is light, will not break, is tinned outside and in, is covered with good quality of brass wire cloth and is non-corrosive.

### PRICE LIST.

| Trade Number.                      | Each,<br>with Brass Gauze. | Each,<br>without Brass Gauze. |
|------------------------------------|----------------------------|-------------------------------|
| No. 17, for 1-in. Pipe Tinned..... | \$0 28.....                | \$0 22                        |
| No. 18, " 1¼-in. Pipe Tinned.....  | 0 32.....                  | 0 24                          |
| No. 19, " 1½-in. Pipe Tinned.....  | 0 36.....                  | 0 26                          |

USE TRADE NUMBER IN ORDERING.

# Couplings for Iron Rods.



We make these in malleable iron in four sizes, threaded, ready for use; plain iron or tinned. In ordering use trade number so we may know the kind of thread you want. Fourteen threads for  $\frac{3}{8}$  inch, and twelve threads for  $\frac{7}{16}$ , and  $\frac{1}{2}$  inch is regular for most of the pump rods. We have new patterns and new machinery for cutting threads, we bore them straight through before tapping to insure straight couplings.

## PRICE LIST.

| Trade Number. | Size Rods.                        | Threads to the Inch. | Tinned Per Pound. | Plain Per Pound. |
|---------------|-----------------------------------|----------------------|-------------------|------------------|
| No. 420.....  | $\frac{3}{8}$                     | 14, regular,         | 22c. pound        | 18c. pound       |
| " 422.....    | $\frac{3}{8}$                     | 16, to order,        | 22c. pound        | 18c. pound       |
| " 424.....    | $\frac{3}{8} \times \frac{7}{16}$ | 12 x 14              | 22c. pound        | 18c. pound       |
| " 426.....    | $\frac{7}{16}$                    | 12                   | 22c. pound        | 18c. pound       |
| " 428.....    | $\frac{1}{2}$                     | 12                   | 22c. pound        | 18c. pound       |

## WOOD ROD COUPLINGS.

These couplings are made with a socket for the ends of the rods to be driven into to prevent them splitting; this is an advantage over most Rod Couplings on the market; they have a strengthening bead which adds but *little* to the weight but greatly to the strength.

## PRICE LIST.

| Trade Number. | Per Hundred Sets.      |
|---------------|------------------------|
| No. 430. .... | Plain Iron.....\$13 00 |
| " 432.....    | Tinned..... 17 00      |

USE TRADE NUMBER IN ORDERING.





# MORRIS & PATENT

## Perfection Well Cylinders,

STEEL CASED, BRASS LINED, BRASS VALVES,  
MALLEABLE ENDS.

THE BEST IN THE WORLD.

### WHY?

*First.*—They are galvanized steel cased, hence non-corrosive, strong and light.

*Second.*—They are lined with heavy brass lining, besides being non-corrosive the plunger leathers will last four times longer than in a common iron Cylinder.

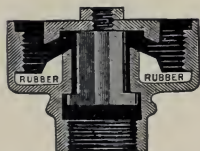
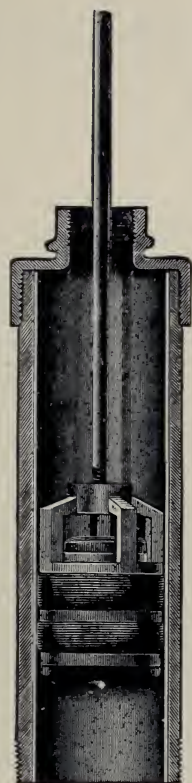
*Third.*—The Cylinder ends are **malleable iron**, galvanized to make them non-corrosive, will not break like the common cast iron ends, in transporting or handling.

*Fourth.*—The plunger is all brass with two oak-tanned leathers, formed and pressed to exact fit. Will work easy and are good for ten years' wear in ordinary use.

*Last.*—**And most important.** The check valve, which in the common Cylinder does not last on an average two years, in **ours** is comparatively indistructible. **Why indistructible?** The poppet is wholly of metal, so the water in its passage up does not wear it as it does the common leather faced poppet. The valve seat is a good quality of rubber  $\frac{3}{8}$  of an inch thick, surrounding a metal tube which projects above and protects the rubber valve-seat from contact or wear of the water in its passage upward. **See engraving on opposite page.** It will be seen the poppet is cupped downward so the edges drop upon the rubber valve seat, making it water-tight. We will agree to furnish any part of these Cylinders free of cost if it fails in ordinary use in ten years.

Agents wanted everywhere. See last page for price list.

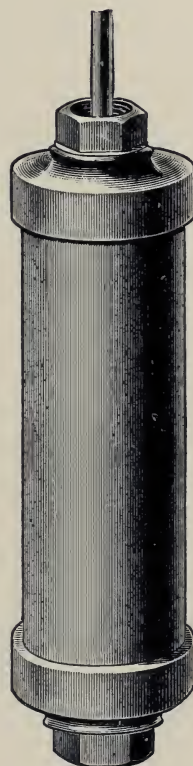
# MORRIS · PATENT Perfection Well Cylinders.



SECTIONAL VIEW OF CHECK VALVE  
AND VALVE SEAT.

PATENTED,  
JULY 29TH, 1890.

FOR  
OPEN AND CASED  
WELLS.



The engraving on the left is a vertical section of **Our Perfection Steel Cased, Brass-Lined Cylinder**, with 2 leather all brass plungers with the lower valve cap detached, showing construction of valve, with rubber valve seat, with cupped metallic poppet. Guaranteed good for 10 years' service in ordinary use.

## PRICE LIST

# MORRIS STEEL CASED Brass : Lined : Cylinders,

WITH MALLEABLE IRON END ATTACHMENTS,

OUTSIDE AND IN GALVANIZED.

PATENT CHECK VALVE WITH TWO-LEATHER BRASS PLUNGERS, PAT. JULY 29, '90.

| Diameter. | Length.  | Stroke. | Price.  | Diameter. | Length.  | Stroke.  | Price    |
|-----------|----------|---------|---------|-----------|----------|----------|----------|
| 2 inch.   | 12 inch. | 6 inch. | \$ 6 00 | 3 inch.   | 22 inch. | 16 inch. | \$ 10 50 |
| 2 "       | 14 "     | 8 "     | 6 50    | 3 "       | 24 "     | 18 "     | 11 00    |
| 2 "       | 16 "     | 10 "    | 7 00    | 3 "       | 26 "     | 20 "     | 11 50    |
| 2 "       | 18 "     | 12 "    | 7 50    | 3 "       | 28 "     | 22 "     | 12 00    |
| 2 "       | 20 "     | 14 "    | 8 00    | 3 "       | 30 "     | 24 "     | 12 50    |
| 2 "       | 22 "     | 16 "    | 8 50    | 3½ "      | 12 "     | 6 "      | 9 00     |
| 2 "       | 24 "     | 18 "    | 9 00    | 3½ "      | 14 "     | 8 "      | 10 00    |
| 2 "       | 26 "     | 20 "    | 9 50    | 3½ "      | 16 "     | 10 "     | 11 00    |
| 2 "       | 28 "     | 22 "    | 10 00   | 3½ "      | 18 "     | 12 "     | 12 00    |
| 2 "       | 30 "     | 24 "    | 10 50   | 3½ "      | 20 "     | 14 "     | 13 00    |
| 2½ "      | 12 "     | 6 "     | 7 00    | 3½ "      | 22 "     | 16 "     | 14 00    |
| 2½ "      | 14 "     | 8 "     | 7 50    | 3½ "      | 24 "     | 18 "     | 15 00    |
| 2½ "      | 16 "     | 10 "    | 8 00    | 3½ "      | 26 "     | 20 "     | 16 00    |
| 2½ "      | 18 "     | 12 "    | 8 50    | 3½ "      | 28 "     | 22 "     | 17 00    |
| 2½ "      | 20 "     | 14 "    | 9 00    | 3½ "      | 30 "     | 24 "     | 18 00    |
| 2½ "      | 22 "     | 16 "    | 9 50    | 4 "       | 12 "     | 6 "      | 11 00    |
| 2½ "      | 24 "     | 18 "    | 10 00   | 4 "       | 14 "     | 8 "      | 12 00    |
| 2½ "      | 26 "     | 20 "    | 10 50   | 4 "       | 16 "     | 10 "     | 13 00    |
| 2½ "      | 28 "     | 22 "    | 11 00   | 4 "       | 18 "     | 12 "     | 14 00    |
| 2½ "      | 30 "     | 24 "    | 11 50   | 4 "       | 20 "     | 14 "     | 15 00    |
| 3 "       | 12 "     | 6 "     | 8 00    | 4 "       | 22 "     | 16 "     | 16 00    |
| 3 "       | 14 "     | 8 "     | 8 50    | 4 "       | 24 "     | 18 "     | 17 00    |
| 3 "       | 16 "     | 10 "    | 9 00    | 4 "       | 26 "     | 20 "     | 18 00    |
| 3 "       | 18 "     | 12 "    | 9 50    | 4 "       | 28 "     | 22 "     | 19 00    |
| 3 "       | 20 "     | 14 "    | 10 00   | 4 "       | 30 "     | 24 "     | 20 00    |

2 inch Cylinders fitted for 1 inch pipe.

2½ and 3 inch Cylinders fitted for 1¼ inch pipe.

3½ and 4 inch Cylinders fitted for 1½ inch pipe.





